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Oct 9, 2002

PUB-NO: JP02002294301A

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TITLE: FINE METALLIC PARTICLE, METHOD FOR PRODUCING THE FINE PARTICLE, COATING
SOLUTION FOR FORMING TRANSPARENT ELECTRICALLY CONDUCTIVE FILM CONTAINING THE FINE
PARTICLE, BASE MATERIAL FITTED WITH TRANSPARENT ELECTRICALLY CONDUCTIVE FILM AND
DISPLAY

PUBN-DATE: October 9, 2002

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide fine metallic particles which can suitably be used for the formation of a transparent electrically conductive film having a low surface resistance of about 10² to 10⁴Ω/(square), having excellent antistatic effect, reflection preventability and electromagnetic shielding properties, and further having excellent reliability and durability, and a method for producing the metallic fine particles.

SOLUTION: The fine metallic particles consist of iron and metal other than iron. The average particle size lies in the range of 1 to 200 nm, and the content of iron lies in the range of 0.1 to 3.0 wt.%. As the metal other than iron, one or more kinds of metals selected from the groups consisting of Au, Ag, Pd, Pt, Rh, Cu, Ni, Co, Sn, Ti, In, Al, Ta, Sb and Ru are preferably used. A part of the surfaces of the metallic fine particles can consists of oxide and/or hydroxide.

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